





PAGER Version 4

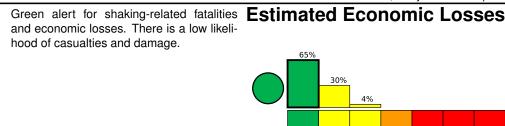
Created: 3 weeks, 0 days after earthquake

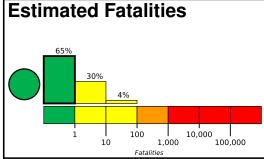
M 5.4, 126 km SSE of Pangai, Tonga

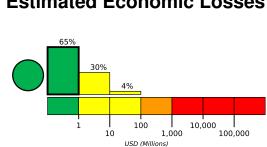
Origin Time: 2023-12-24 14:52:55 UTC (Sun 02:52:55 local) Location: 20.8420° S 173.8336° W Depth: 3.7 km

10,000 1,000

and economic losses. There is a low likeli-







Estimated Population Exposed to Earthquake Shaking

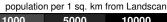
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	92k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

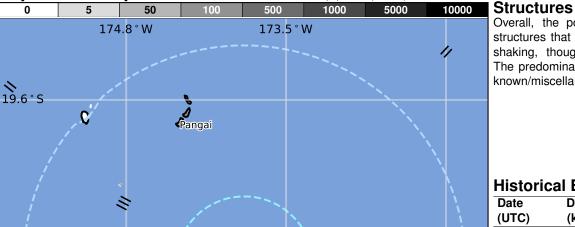
^{*}Estimated exposure only includes population within the map area.

Population Exposure

20.8°S

21.9°S





Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1977-06-22	303	8.0	VII(47k)	0
1983-03-21	168	6.7	VII(53k)	-
2006-05-03	81	8.0	VIII(7k)	0

Selected City Exposure

from GeoNames.org MMI City **Population** 'Ohonua III 1k Ш **Pangai** 2k Ш Vaini 3k Ш Haveluloto 3k Ш Nuku'alofa 22k

bold cities appear on map.

100

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.